

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
James Alfred Thompson

Confirmation No.: 8553

Application No.: 10/656,687

Art Unit: 2423

Filed: September 5, 2003

Examiner: J. O. Mendoza

For: CABLE NETWORK ACCESS CONTROL  
SOLUTION

**DECLARATION OF ROBERT SHUGARMAN**

1. My name is Robert Shugarman. I am over 18 years of age, of sound mind, and capable of making this declaration.
2. I am employed by Time Warner Cable ("TWC"), where I hold the position of Texas Region Vice President, Construction and Design.
3. For the past 26 years, I have been employed in the Telecommunications Industry.
4. During the past 26 years I have held both technical positions and management positions.
5. TWC has currently deployed thousands of cable distribution boxes in the multi-dwelling unit (MDU) environment in the Texas Region, such cable distribution boxes are hereafter referred to as "Legacy Cable Distribution Boxes."
6. The Legacy Cable Distribution Boxes are secured by using hinged lids and locking mechanisms to secure the Legacy Cable Distribution Boxes. Accordingly, Cable Company Contractors and Employees require a physical key to unlock the Legacy Cable Distribution Boxes.

7. The Legacy Cable Distribution Boxes are routinely subjected to in-person audits to determine whether Cable Theft has occurred. The in-person audits are expensive and require large number of auditors to perform the audits.
8. The Legacy Cable Distribution Boxes do not include any mechanism to remotely authorize access to a Cable Company Contract or Employee.
9. The Legacy Cable Distribution Boxes do not include any mechanism to enable them to be remotely unlocked.
10. The Legacy Cable Distribution Boxes do not include any mechanism to enable them to be remotely audited.
11. Cable Theft in the MDU environment has been a problem (and continues to be a problem) since at least 1984. In particular, cable theft in the Legacy Cable Distribution Boxes currently occurs in at least the following manner:
  - a. Legacy Cable Distribution Boxes were physically compromised by unauthorized parties breaking into the Legacy Cable Distribution Boxes. The unauthorized parties subsequently connected non-customers to enable them to receive cable service from the Legacy Cable Distribution Box.
  - b. Legacy Cable Distribution Boxes were left open by Cable Company Contractors and Employees. Unauthorized parties subsequently connected non-customers to enable them to receive cable service from the Legacy Cable Distribution Box.
  - c. Keyed locks used to secure the Legacy Cable Distribution Boxes are easily duplicated (or readily available) and, accordingly, available for current and former Cable Company Contractors and Employees to access Legacy Cable Distribution Boxes and subsequently connected

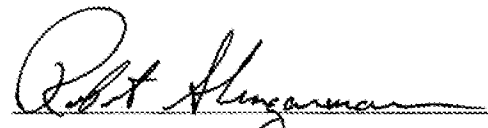
non-customers to enable them to receive cable service from the Legacy Cable Distribution Box.

12. Prior to learning about the Cable Distribution Boxes developed by Remote Security Systems, LLC (hereafter RSS Cable Distribution Boxes), I was not aware of any Cable Distribution Box technology to address Cable Theft described in paragraph 11.
13. Since 2006, the Texas Region of Time Warner Cable has purchased 225 and deployed 42 RR Cable Distribution Boxes from in the MDU environment, thereby replacing the previously installed cable distribution boxes.
14. The RSS Cable Distribution Boxes enable TWC to address the problems of Cable Theft in the MDU environment by:
  - a. Providing a mechanism to remotely authorize access to the RSS Cable Distribution Box. This mechanism enables fine-grained control of who can access a particular the RSS Cable Distribution Box including removing access to former Cable Company Employees and Contractors.
  - b. Providing a mechanism to enable unlocking on the RSS Cable Distribution Boxes after remote authorization has been granted.
  - c. Tracking access to the RSS Cable Distribution Boxes using a work log, which may be remotely accessed.
15. To date, there have been no incidents of Cable Theft in MDU environments in which the RSS Cable Distribution Boxes have been deployed.
16. The authentication device, the memory, the electronic access control system, and the lock in the cable RSS Cable Distribution Boxes are solely powered using power from the coaxial cable line. This functionality is considered critical for TWC because it enables TWC to

easily deploy with the RSS Cable Distribution Boxes as there is no requirement for additional power to be supplied to the RSS Cable Distribution Boxes.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signed this 28 day of August 2009

  
Robert Shugarman

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

---

In re Patent Application of:

James Alfred Thompson

Confirmation No.: 8553

Application No.: 10/656,687

Art Unit: 2423

Filed: September 5, 2003

Examiner: J. O. Mendoza

For: CABLE NETWORK ACCESS CONTROL  
SOLUTION

---

**DECLARATION OF ROBERT V. MOEL**

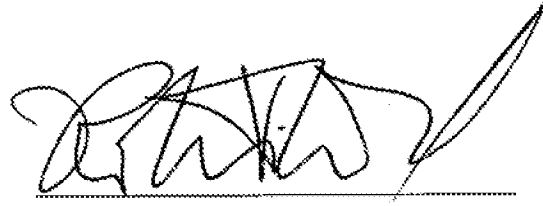
1. My name is Robert V. Moel. I am over 18 years of age, of sound mind, and capable of making this declaration.
2. I am employed by Time Warner Cable ("TWC"), where I hold the position of Regional Vice President Operations, North Texas Division.
3. I am a licensed Professional Engineer.
4. For the past 30 years, I have been employed in the Cable Television Industry.
5. During the past 30 years I have held both technical positions and management positions.
6. TWC has currently deployed thousands of cable distribution boxes in the multi-dwelling unit (MDU) environment in the Texas Region, such cable distribution boxes are hereafter referred to as "Legacy Cable Distribution Boxes."
7. The Legacy Cable Distribution Boxes are secured by using mechanical locking mechanisms to secure the Legacy Cable Distribution Boxes. Accordingly, Cable Company Contractors and Employees require a physical key to unlock the Legacy Cable Distribution Boxes.
8. The Legacy Cable Distribution Boxes are routinely subjected to in-person audits to determine whether Cable Theft has occurred.

9. The Legacy Cable Distribution Boxes do not include any mechanism to remotely authorize access to a Cable Company Employee or Contractor.
10. The Legacy Cable Distribution Boxes do not include any mechanism to enable them to be remotely unlocked.
11. The Legacy Cable Distribution Boxes do not include any mechanism to enable them to be remotely audited.
12. Cable Theft in the MDU environment has been a problem (and continues to be a problem) since at least 1984. In particular, cable theft in the Legacy Cable Distribution Boxes currently occurs in at least the following manner:
  - a. Legacy Cable Distribution Boxes are physically compromised by unauthorized parties breaking into the Legacy Cable Distribution Boxes. The unauthorized parties subsequently connect non-customers to enable them to receive cable service from the Legacy Cable Distribution Box.
  - b. Legacy Cable Distribution Boxes are left open by Cable Company Contractors and Employees. Unauthorized parties subsequently connect non-customers to enable them to receive cable service from the Legacy Cable Distribution Box.
  - c. Keyed locks used to secure the Legacy Cable Distribution Boxes are easily duplicated (or readily available) and, accordingly, available for current and former Cable Company Contractors and Employees to access Legacy Cable Distribution Boxes. Non-customers are subsequently connected, which enables them to receive cable service from the Legacy Cable Distribution Box.
13. The fundamental design and operation of the Legacy Cable Distribution Boxes described in paragraphs 7-11 has remained unchanged since at least 1985.

14. Prior to learning about the Cable Distribution Boxes developed by Remote Security Systems, LLC (hereafter RSS Cable Distribution Boxes), I was not aware of any Cable Distribution Box technology to effectively address Cable Theft described in paragraph 12.
15. Since 2007, the Texas Region of Time Warner Cable has purchased 225 and deployed 42 RR Cable Distribution Boxes from in the MDU environment, thereby replacing the previously installed cable distribution boxes.
16. The RSS Cable Distribution Boxes enable TWC to address the problems of Cable Theft in the MDU environment by:
  - a. Providing a mechanism to remotely authorize access to the RSS Cable Distribution Box. This mechanism enables complete control of who can access a particular RSS Cable Distribution Box including removing access to former Cable Company Employees and Contractors.
  - b. Providing a mechanism to enable unlocking the RSS Cable Distribution Boxes after remote authorization has been granted.
  - c. Tracking access to the RSS Cable Distribution Boxes using a work log, which may be remotely accessed.
  - d. Eliminating the cost of rekeying the locks on Legacy Cable Distribution Boxes when a key is lost or a Cable Company Employee or Contractor is terminated.
17. The authentication device, the memory, the electronic access control system, and the lock in RSS Cable Distribution Boxes are solely powered using power from the coaxial cable. This functionality is considered critical for TWC because it enables TWC to easily deploy the RSS Cable Distribution Boxes as there is no requirement for additional power to be supplied to the RSS Cable Distribution Boxes.

I hereby declare that all statements made herein are of my own knowledge and are true, and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signed this 16 day of September 2009

A handwritten signature in black ink, appearing to read 'Robert V. Moel', written over a horizontal line.

Robert V. Moel



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
James Alfred Thompson

Confirmation No.: 8553

Application No.: 10/656,687

Art Unit: 2423

Filed: September 5, 2003

Examiner: J. O. Mendoza

For: CABLE NETWORK ACCESS CONTROL  
SOLUTION

**DECLARATION OF TERRY PAUL**

1. My name is Terry L. Paul. I am over 18 years of age, of sound mind, and capable of making this declaration.
2. I am employed by Cox Communications, Inc. ("Cox"), where I hold the position of Loss Prevention & Quality Assurance Supervisor.
3. For the past 15 years, I have been employed in the cable industry.
4. For the past 10 years, I have been working on Loss Prevention (i.e., prevention of Cable Theft) in Las Vegas, Nevada, USA.
5. Cox has currently deployed thousands of cable distribution boxes in the multi-dwelling unit (MDU) environment in the United States, such cable distribution boxes are hereafter referred to as "Legacy Cable Distribution Boxes."
6. The Legacy Cable Distribution Boxes are secured by traditional mechanical locks and keys. Accordingly, Cable Company Contractors and Employees require a physical key to unlock the Legacy Cable Distribution Boxes.

7. The Legacy Cable Distribution Boxes are routinely subjected to in-person audits to determine whether Cable Theft has occurred. The in-person audits are expensive and require a large number of auditors and hours of labor to perform the audits.
8. The Legacy Cable Distribution Boxes do not include any mechanism to remotely authorize access to a Cable Company Contract or Employee.
9. The Legacy Cable Distribution Boxes do not include any mechanism to enable them to be remotely unlocked.
10. The Legacy Cable Distribution Boxes do not include any mechanism to enable them to be remotely audited.
11. Cable Theft in the MDU environment has been a problem (and continues to be a problem) throughout the United States for as long as I have been employed by Cox Communications. In particular, cable theft in the Legacy Cable Distribution Boxes currently occurs in at least the following manner:
  - a. Legacy Cable Distribution Boxes are physically compromised by unauthorized parties breaking into the Legacy Cable Distribution Boxes. The unauthorized parties subsequently connect non-customers to enable them to receive cable service from the Legacy Cable Distribution Box.
  - b. Legacy Cable Distribution Boxes are left open by Cable Company Contractors and Employees. Unauthorized parties subsequently connect non-customers to enable them to receive cable service from the Legacy Cable Distribution Box.
  - c. Keyed locks used to secure the Legacy Cable Distribution Boxes are easily duplicated (or readily available) and, accordingly, available for current and former Cable Company Contractors and Employees to access Legacy Cable Distribution Boxes. Non-customers are

subsequently connected, which enables them to receive cable service from the Legacy Cable Distribution Box.

12. The fundamental design and operation of the Legacy Cable Distribution Boxes described in paragraphs 8-10 has remained unchanged for at least 15 years.
13. Cox is currently attempting to reduce Cable Theft, which is currently 16.67% of all current MDUs where Cox provides cable service. Said another way, only 83.33% of all cable service connections in MDUs in the Cox Network are authorized connections.
14. Cox, in the past 10 years, has unsuccessfully attempted to stop Cable Theft by:
  - a. Changing the lock-key mechanisms on the Legacy Cable Distribution Boxes
  - b. Increasing the physical security features on the Legacy Cable Distribution Boxes
  - c. Increasing the number of Audit Personnel involved in auditing the deployed Legacy Cable Distribution Boxes
15. Prior to learning about the Cable Distribution Boxes developed by Remote Security Systems, LLC (hereafter RSS Cable Distribution Boxes), I was not aware of any Cable Distribution Box technology to effectively address Cable Theft described in paragraph 11.
16. Since 2008, Cox has purchased and deployed one RSS Cable Distribution Box in the MDU environment, thereby replacing the previously installed cable distribution box.
17. The RSS Cable Distribution Boxes enable Cox to address the problems of Cable Theft in the MDU environment by:
  - a. Providing a mechanism to remotely authorize access to the RSS Cable Distribution Box. This mechanism enables fine-grained control of who can access a particular RSS Cable Distribution Box including

removing access to former Cable Company Employees and Contractors.

- b. Providing a mechanism to enable unlocking of the RSS Cable Distribution Boxes after remote authorization has been granted.
  - c. Tracking access to the RSS Cable Distribution Boxes using a work log, which may be remotely accessed.
  - d. Eliminating the cost of replacing locks on Legacy Cable Distribution Boxes when a lock is damaged or removed.
  - e. Incorporating an internal locking mechanism, which removes external failure points of the locking mechanism used to secure the RSS Cable Distribution Boxes.
18. To date, I am not aware of any incidents of Cable Theft in the MDU environment in which the RSS Cable Distribution Box has been deployed. Further, based on the effectiveness of the RSS Cable Distribution Box in preventing Cable Theft, Cox is presently in the process of identifying 20-30 high Cable Theft locations in which to deploy RSS Cable Distribution Boxes.
19. The authentication device, the memory, the electronic access control system, and the lock in the RSS Cable Distribution Boxes are solely powered using power from the coaxial cable line. This functionality is considered critical for Cox because it enables Cox to easily deploy the RSS Cable Distribution Boxes as there is no requirement for additional power to be supplied to the RSS Cable Distribution Boxes.

I hereby declare that all statements made herein are of my own knowledge, are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States

Application No.: 10/656,687

Docket No.: 17065/004001

Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signed this 14 day of OCT 2009

  
Terry L. Paul